

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
25 August 2005 (25.08.2005)

PCT

(10) International Publication Number
WO 2005/077532 A1

(51) International Patent Classification⁷: **B01J 35/00**,
23/89, B01D 53/94

(21) International Application Number:
PCT/JP2005/002195

(22) International Filing Date: 8 February 2005 (08.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2004-040091 17 February 2004 (17.02.2004) JP

(71) Applicant (for all designated States except US): **NISSAN
MOTOR CO., LTD.** [JP/JP]; 2, Takara-cho, Kana-
gawa-ku, Yokohama-shi, Kanagawa 2210023 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **YASUDA, Hi-
rofumi. SUGA, Katsuo. NAKAMURA, Masanori.
WAKAMATSU, Hironori. SHIRATORI, Kazuyuki.
SEKIBA, Toru.**

(74) Agents: **MIYOSHI, Hidekazu** et al.; Toranomon Koto-
hira Tower, 2-8, Toranomon 1-chome, Minato-ku, Tokyo
1050001 (JP).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG,
KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: CATALYST POWDER, EXHAUST GAS PURIFYING CATALYST, AND METHOD OF PRODUCING THE CATA-
LYST POWDER

(57) Abstract: A method of producing catalyst powder of the present invention has a step of precipitating any one of a noble metal
particle (5) and a transition metal particle (10) in a reversed micelle (1); a step of precipitating, in the reversed micelle (1) in which
any one of the noble metal particle (5) and the transition metal particle (10) is precipitated, a porous support material (7) which
supports the noble metal particle (5) and the transition metal particle (10); and a step of precipitating the other of the noble metal
particle (5) and the transition metal particle (10) in the reversed micelle (1) in which any one of the noble metal particle (5)



WO 2005/077532 A1